

=> fil reg

FILE 'REGISTRY' ENTERED AT 07:49:09 ON 12 OCT 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 OCT 2005 HIGHEST RN 865062-68-6

DICTIONARY FILE UPDATES: 11 OCT 2005 HIGHEST RN 865062-68-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
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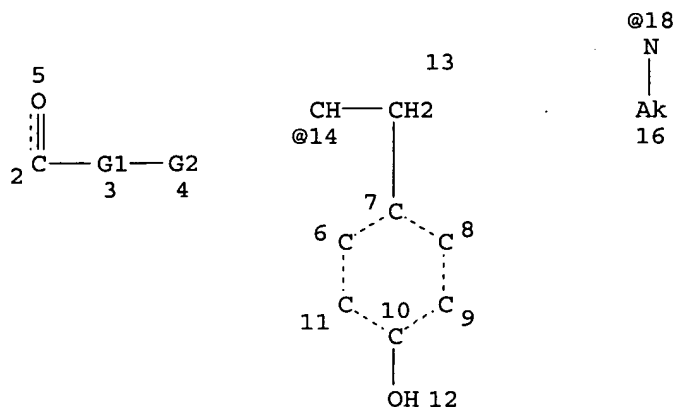
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que l4

L1 STR



VAR G1=CH2/14

VAR G2=NH/18

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 16  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RSPEC 6  
NUMBER OF NODES IS 15

## STEREO ATTRIBUTES: NONE

L2 SCR 2043  
L4 7898 SEA FILE=REGISTRY SSS FUL L1 AND L2

100.0% PROCESSED 477946 ITERATIONS  
SEARCH TIME: 00.00.07

7898 ANSWERS

=&gt; d his

(FILE 'HOME' ENTERED AT 06:11:09 ON 12 OCT 2005)  
DEL HIS

FILE 'REGISTRY' ENTERED AT 06:12:47 ON 12 OCT 2005

L1 STR  
L2 SCR 2043  
L3 47 S L1 AND L2  
L4 7898 S L1 AND L2 FUL  
SAV L4 GEORGE086B/A  
L5 149 S (60-18-4 OR 556-02-5 OR 556-03-6)/CRN AND L4  
L6 6 S L5 AND 1/NC  
L7 1 S L5 AND NA/ELS AND 2/NC  
L8 1 S L5 AND 67-56-1/CRN  
L9 2 S L5 AND C3H7NO2 NOT ALANINE  
L10 4 S L5 AND C2H5NO2  
L11 7749 S L4 NOT L5  
L12 13 S L11 AND C10H13NO3  
L13 4 S L12 AND CL/ELS  
L14 3 S L13 AND 1/NR  
L15 7736 S L11 NOT L12  
L16 STR  
L17 23 S L16 CSS SAM SUB=L4  
L18 442 S L16 CSS FUL SUB=L4  
SAV L18 GEORGE086C/A  
L19 371 S L18 AND C2H5NO2  
L20 204 S L19 AND NR>=1  
L21 4 S L5 AND L20  
L22 167 S L19 NOT L20  
L23 12 S L22 AND 1/NC  
L24 2 S L23 NOT (D/ELS OR 15N OR LABELED OR 13C#)  
L25 11 S L22 AND (CL OR BR)/ELS AND 2/NC  
L26 2 S L25 AND (BRH OR CLH) NOT D/ELS  
L27 7 S L22 AND C3H7NO2 AND C2H5NO2 AND 2/NC  
L28 1 S L27 NOT ALANINE  
L29 SCR 2068  
L30 50 S L29 SAM SUB=L4  
L31 3208 S L29 FUL SUB=L4  
SAV L31 GEORGE086D/A  
L32 1632 S L31 NOT (C2H4O OR C3H6O)  
L33 305 S L32 AND 1/NR AND 46.150.18/RID  
L34 5 S L33 AND C9H9NO2

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L35      4 S L34 NOT ACETYL
L36     300 S L33 NOT L34
L37      77 S L36 AND 4 HYDROXY
L38      1 S L37 AND C11H12N2O3
L39     223 S L36 NOT L37
L40    1327 S L32 NOT L33-L39
L41     665 S L40 AND NR>=1
L42     662 S L40 NOT L41
L43     189 S L42 AND 1/N
L44     156 S L43 NOT (S OR P OR SI)/ELS
L45      55 S L44 AND (C6H11NO OR C5H9NO OR C3H5NO OR C4H7NO OR C2H3NO)
L46      48 S L45 AND 1/NC
L47     13 S L46 AND ("(C6H11NO)N" OR "(C5H9NO)N" OR "(C4H7NO)N" OR "(C3H5
L48      6 S L47 NOT (LABELED OR D/ELS OR 15N OR 13C)
L49    473 S L42 NOT L43
L50      9 S L49 AND (C5H8N2O2 OR C7H11N3O3)
        SEL RN 3 9
L51      2 S E1,E2
L52     31 S L6-L9,L14,L24,L26,L28,L35,L38,L48,L51
        SAV L52 GEORGE086E/A
        ACT GEORGE086/A

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L53 (      66)SEA FILE=REGISTRY ABB=ON PLU=ON C8H14N4O5/MF
L54 (      59)SEA FILE=REGISTRY ABB=ON PLU=ON C9H16N4O5/MF
L55 (     125)SEA FILE=REGISTRY ABB=ON PLU=ON (L53 OR L54)
L56 (      61)SEA FILE=REGISTRY ABB=ON PLU=ON L55 AND NR>=1
L57 (      64)SEA FILE=REGISTRY ABB=ON PLU=ON L55 NOT L56
L58 (       3)SEA FILE=REGISTRY ABB=ON PLU=ON L57 AND METHYL ESTER
L59 (       8)SEA FILE=REGISTRY ABB=ON PLU=ON L57 AND GLYCYLGLYCYLGLYCYL
L60 (       8)SEA FILE=REGISTRY ABB=ON PLU=ON (L58 OR L59) NOT D/ELS
L61 (       6)SEA FILE=REGISTRY ABB=ON PLU=ON L60 NOT ALANINE
L62 (       2)SEA FILE=REGISTRY ABB=ON PLU=ON L61 NOT (145105-82-4/BI OR 18
L63 (       9)SEA FILE=REGISTRY ABB=ON PLU=ON C36H38N4O9/MF AND 46.150.18/R
L64 (       1)SEA FILE=REGISTRY ABB=ON PLU=ON L63 AND TYROSYL
L65 (       2)SEA FILE=REGISTRY ABB=ON PLU=ON C37H40N4O9/MF AND 46.150.18/R
L66 (       1)SEA FILE=REGISTRY ABB=ON PLU=ON L65 AND TYROSYL
L67 (       4)SEA FILE=REGISTRY ABB=ON PLU=ON (L62 OR L64 OR L66)
L68 (      17)SEA FILE=REGISTRY ABB=ON PLU=ON (13075-43-9/CRN OR 637-84-3/C
L69 (       6)SEA FILE=REGISTRY ABB=ON PLU=ON L68 NOT (CONJUGATE OR MXS/CI
L70 (       5)SEA FILE=REGISTRY ABB=ON PLU=ON L69 NOT ALANINE
L71 (       9)SEA FILE=REGISTRY ABB=ON PLU=ON (L67 OR L70)

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ACT GEORGE086A/A

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L72 (     335)SEA FILE=REGISTRY ABB=ON PLU=ON (556-02-5/CRN OR 556-03-6/CRN
L73 (     146)SEA FILE=REGISTRY ABB=ON PLU=ON L72 AND PMS/CI
L74 (       1)SEA FILE=REGISTRY ABB=ON PLU=ON L73 AND CH4O
L75 (      43)SEA FILE=REGISTRY ABB=ON PLU=ON C3H7NO2 AND L73
L76 (       2)SEA FILE=REGISTRY ABB=ON PLU=ON L75 NOT ALANINE
L77 (       6)SEA FILE=REGISTRY ABB=ON PLU=ON L73 AND C9H11NO3 AND 1/NC
L78 (       3)SEA FILE=REGISTRY ABB=ON PLU=ON (25667-16-7/BI OR 31724-37-5/
L79      12 SEA FILE=REGISTRY ABB=ON PLU=ON (L74 OR L76 OR L77 OR L78)

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L80      19 S L52 NOT L71,L79

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FILE 'HCAPLUS' ENTERED AT 07:46:43 ON 12 OCT 2005

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L81      817 S L80
L82       1 S L81 AND (LOREAL? OR OREAL? OR L()OREAL?)/PA,CS
L83       1 S L81 AND (PHILIPPE M? OR PHILIPPE M? OR PHILLIPPE M? OR PHILLIP
L84       1 S L82,L83

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L85 5 S L81 AND COSMETIC?/SC,SX,CW,CT,BI  
L86 9 S L81 AND COSMETICS+OLD,NT,PFT,RT/CT  
L87 1 S L81 AND ?WRINKL?  
L88 10 S L82-L87  
L89 3 S L80(L)COS/RL  
L90 10 S L88,L89

FILE 'REGISTRY' ENTERED AT 07:49:09 ON 12 OCT 2005

=> d ide can tot l52

L52 ANSWER 1 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 462117-51-7 REGISTRY  
ED Entered STN: 17 Oct 2002  
CN L-Tyrosine, homopolymer, methyl ester (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C9 H11 N O3)x . C H4 O  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 67-56-1  
CMF C H4 O

H<sub>3</sub>C-OH

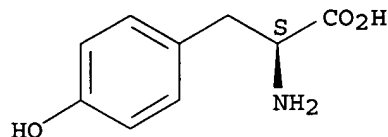
CM 2

CRN 25619-78-7  
CMF (C9 H11 N O3)x  
CCI PMS

CM 3

CRN 60-18-4  
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 2 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 457625-05-7 REGISTRY

ED Entered STN: 01 Oct 2002  
CN L-Tyrosine, polymer with L-lysine and N-methylglycine (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C9 H11 N O3 . C6 H14 N2 O2 . C3 H7 N O2)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

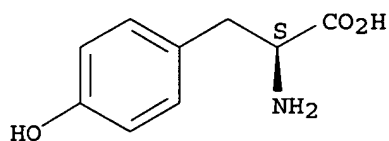
CRN 107-97-1  
CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

CM 2

CRN 60-18-4  
CMF C9 H11 N O3

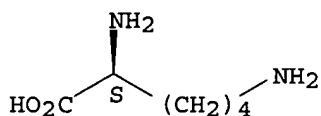
Absolute stereochemistry. Rotation (-).



CM 3

CRN 56-87-1  
CMF C6 H14 N2 O2

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 3 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 457625-04-6 REGISTRY  
ED Entered STN: 01 Oct 2002  
CN L-Tyrosine, polymer with N-methylglycine (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C9 H11 N O3 . C3 H7 N O2)x  
CI PMS

jan delaval - 12 october 2005

PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

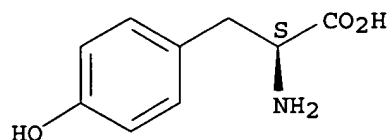
CRN 107-97-1  
 CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

CM 2

CRN 60-18-4  
 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

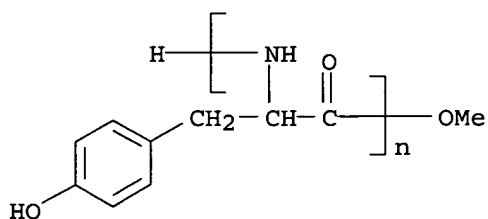


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 4 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 457625-03-5 REGISTRY  
 ED Entered STN: 01 Oct 2002  
 CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]],  
 α-hydro-ω-methoxy- (9CI) (CA INDEX NAME)  
 MF (C9 H9 N O2)<sub>n</sub> C H4 O  
 CI PMS  
 PCT Polyamide  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



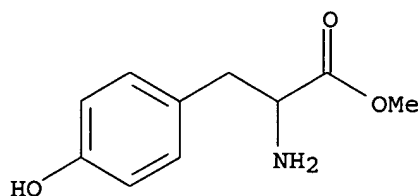
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 5 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 285133-90-6 REGISTRY  
ED Entered STN: 11 Aug 2000  
CN Tyrosine, methyl ester, hydrochloride, homopolymer (9CI) (CA INDEX NAME)  
MF (C10 H13 N O3 . Cl H)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 68697-61-0 (18869-47-1)  
CMF C10 H13 N O3 . Cl H



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:63575

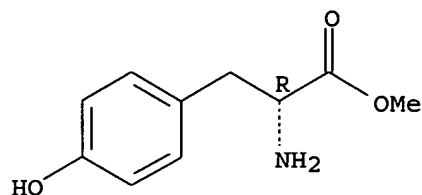
REFERENCE 2: 133:120844

L52 ANSWER 6 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 285133-89-3 REGISTRY  
ED Entered STN: 11 Aug 2000  
CN D-Tyrosine, methyl ester, hydrochloride, homopolymer (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C10 H13 N O3 . Cl H)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 3728-20-9 (3410-66-0)  
CMF C10 H13 N O3 . Cl H

Absolute stereochemistry. Rotation (-).



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:63575

REFERENCE 2: 133:120844

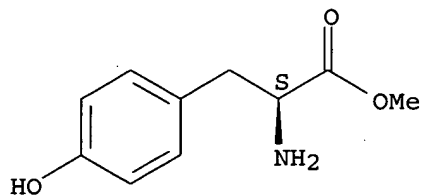
L52 ANSWER 7 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 285133-88-2 REGISTRY  
ED Entered STN: 11 Aug 2000  
CN L-Tyrosine, methyl ester, hydrochloride, homopolymer (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C10 H13 N O3 . Cl H)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
SR CA  
LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 3417-91-2 (1080-06-4)  
CMF C10 H13 N O3 . Cl H

Absolute stereochemistry. Rotation (+).



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:63575



REFERENCE 2: 133:120844

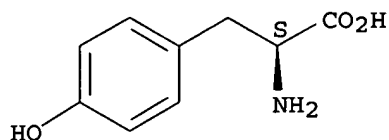
L52 ANSWER 8 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 142847-49-2 REGISTRY  
ED Entered STN: 07 Aug 1992  
CN L-Tyrosine, hexamer (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C9 H11 N O3)6  
CI PMS  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:252981

REFERENCE 2: 117:90965

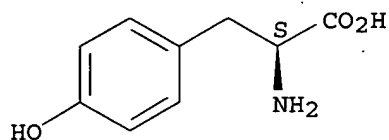
L52 ANSWER 9 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 142847-48-1 REGISTRY  
ED Entered STN: 07 Aug 1992  
CN L-Tyrosine, trimer (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF (C9 H11 N O3)3  
CI PMS  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:90965

L52 ANSWER 10 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 104491-06-7 REGISTRY

ED Entered STN: 04 Oct 1986

CN Poly[imino[(2S)-2-[(4-hydroxyphenyl)methyl]-1-oxo-1,2-ethanediyl]imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[imino[2-[(4-hydroxyphenyl)methyl]-1-oxo-1,2-ethanediyl]imino(1-oxo-1,2-ethanediyl)], (S)-

MF (C11 H12 N2 O3)<sub>n</sub>

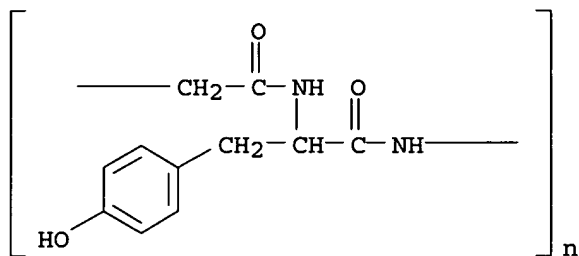
CI PMS

PCT Polyamide

SR CA

LC STN Files: CA, CAPLUS, CASREACT

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:4946

REFERENCE 2: 106:214367

REFERENCE 3: 105:153528

L52 ANSWER 11 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 94798-58-0 REGISTRY

ED Entered STN: 17 Feb 1985

CN Glycine, dimer, monohydrobromide (9CI) (CA INDEX NAME)

MF (C2 H5 N O2)<sub>2</sub> . Br H

LC STN Files: BEILSTEIN\*, CA, CAPLUS

(\*File contains numerically searchable property data)

CM 1

CRN 32056-24-9

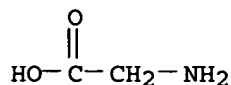
CMF (C2 H5 N O2)<sub>2</sub>

CCI PMS

CM 2

CRN 56-40-6

CMF C2 H5 N O2

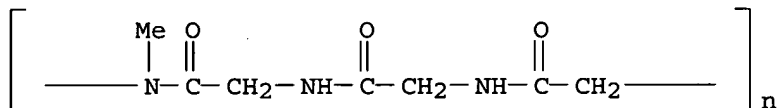


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 102:96019

L52 ANSWER 12 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 62317-83-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)imino(1-oxo-1,2-ethanediyl)imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
MF (C7 H11 N3 O3)n  
CI PMS  
PCT Polyamide  
LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

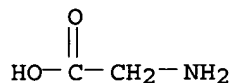
REFERENCE 1: 86:121935

L52 ANSWER 13 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 52825-25-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Glycine, hydrochloride, homopolymer (9CI) (CA INDEX NAME)  
MF (C2 H5 N O2 . Cl H)x  
CI PMS  
PCT Polyamide, Polyamide formed  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 6000-43-7 (56-40-6)  
CMF C2 H5 N O2 . Cl H



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 81:106339

L52 ANSWER 14 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 51772-80-6 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN L-Tyrosine, homopolymer, sodium salt (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Poly-L-tyrosine, sodium salt  
FS STEREOSEARCH  
MF (C9 H11 N O3)x . x Na  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)

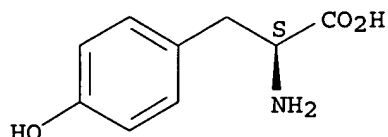
CM 1

CRN 25619-78-7  
CMF (C9 H11 N O3)x  
CCI PMS

CM 2

CRN 60-18-4  
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 81:6797

L52 ANSWER 15 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 34012-45-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Glycine, N-methyl-, polymer with glycine (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Glycine, peptide with sarcosine (8CI)  
CN Glycine, polymer with N-methylglycine (9CI)  
CN Sarcosine, peptide with glycine (8CI)  
OTHER NAMES:  
CN Glycine-N-methylglycine copolymer  
CN Glycine-N-methylglycine polymer  
CN Glycine-sarcosine polymers  
CN Poly(glycine, sarcosine)  
DR 54006-88-1  
MF (C3 H7 N O2 . C2 H5 N O2)x  
CI PMS  
PCT Polyamide, Polyamide formed

LC STN Files: CA, CAPLUS

CM 1

CRN 107-97-1

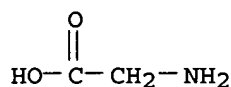
CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

CM 2

CRN 56-40-6

CMF C2 H5 N O2



9 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:244331

REFERENCE 2: 92:6909

REFERENCE 3: 90:98785

REFERENCE 4: 84:90561

REFERENCE 5: 81:169808

REFERENCE 6: 79:19248

REFERENCE 7: 78:30359

REFERENCE 8: 77:62460

REFERENCE 9: 76:46498

L52 ANSWER 16 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33220-79-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[[ (2-methylpropyl) imino] (1-oxo-1,2-ethanediy)] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[(isobutylimino)carbonylmethylene] (8CI)

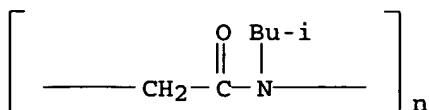
MF (C6 H11 N O)<sub>n</sub>

CI PMS

PCT Polyamide

LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

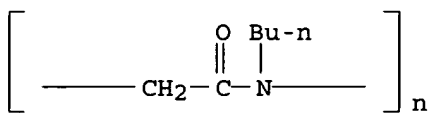


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 17 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 33220-78-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Poly[(butylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Poly[(butylimino)carbonylmethylene] (8CI)  
MF (C6 H11 N O)<sub>n</sub>  
CI PMS  
PCT Polyamide  
LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

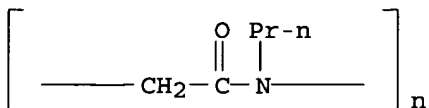


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 18 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 33220-77-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Poly[(propylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Poly[(propylimino)carbonylmethylene] (8CI)  
MF (C5 H9 N O)<sub>n</sub>  
CI PMS  
PCT Polyamide  
LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

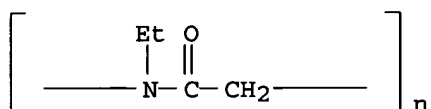


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 19 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 33220-76-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Poly[(ethylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Poly[(ethylimino)carbonylmethylene] (8CI)  
 MF (C4 H7 N O)<sub>n</sub>  
 CI PMS  
 PCT Polyamide  
 LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

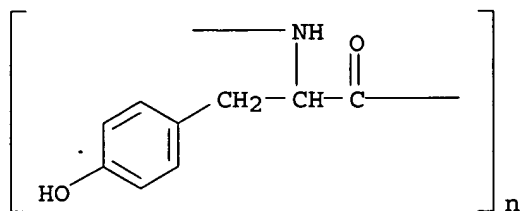


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 20 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 32109-39-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Poly[imino[(1R)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], D- (8CI)  
 MF (C9 H9 N O2)<sub>n</sub>  
 CI PMS  
 PCT Polyamide  
 LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:71444

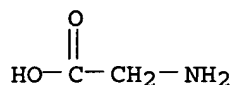
REFERENCE 2: 67:52214

L52 ANSWER 21 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 32056-24-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Glycine, dimer (9CI) (CA INDEX NAME)  
 MF (C2 H5 N O2)2  
 CI PMS, COM  
 LC STN Files: CA, CAPLUS

CM 1

CRN 56-40-6  
 CMF C2 H5 N O2

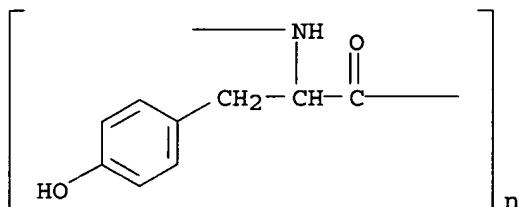


7 REFERENCES IN FILE CA (1907 TO DATE)  
 7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:430534  
 REFERENCE 2: 136:60498  
 REFERENCE 3: 130:287200  
 REFERENCE 4: 130:272151  
 REFERENCE 5: 129:281263  
 REFERENCE 6: 129:20988  
 REFERENCE 7: 100:68725

L52 ANSWER 22 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 31724-37-5 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Poly[iminocarbonyl(1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], DL- (8CI)  
 MF (C9 H9 N O2)n  
 CI PMS  
 PCT Polyamide  
 LC STN Files: ANABSTR, CA, CAPLUS, MEDLINE

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*





2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

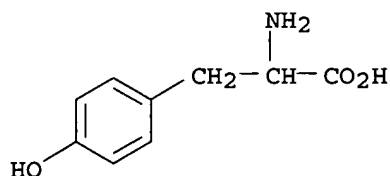
REFERENCE 2: 66:74411

L52 ANSWER 23 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 31630-26-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Tyrosine, DL-, peptides (8CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Poly-DL-tyrosine  
MF (C9 H11 N O3)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed  
LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 556-03-6  
CMF C9 H11 N O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

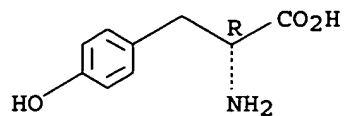
L52 ANSWER 24 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 30704-25-7 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN D-Tyrosine, homopolymer (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Tyrosine, D-, peptides (8CI)  
OTHER NAMES:  
CN Poly-D-tyrosine  
FS STEREOSEARCH  
MF (C9 H11 N O3)x  
CI PMS  
PCT Polyamide, Polyamide formed  
LC STN Files: CA, CAPLUS, CHEMCATS, CSChem, MSDS-OHS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 556-02-5  
CMF C9 H11 N O3

Absolute stereochemistry.



4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:65865

REFERENCE 2: 117:43790

REFERENCE 3: 75:71444

REFERENCE 4: 67:52214

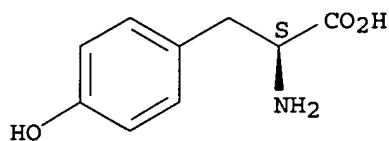
L52 ANSWER 25 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 30442-80-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN L-Tyrosine, dimer (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Tyrosine, L-, dimer (8CI)  
FS STEREOSEARCH  
DR 27476-39-7  
MF (C9 H11 N O3)2  
CI PMS  
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:109944

REFERENCE 2: 117:90965

REFERENCE 3: 74:150934

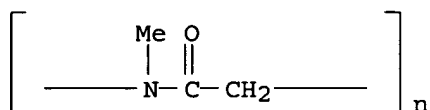
REFERENCE 4: 68:75092

REFERENCE 5: 66:103159

L52 ANSWER 26 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 26521-10-8 REGISTRY

ED Entered STN: 16 Nov 1984  
 CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Poly[(methylimino)carbonylmethylene] (8CI)  
 OTHER NAMES:  
 CN Poly(N-methylglycine), sru  
 CN Polysarcosine  
 CN Polysarcosine, SRU  
 CN Sarcosine N-carboxyanhydride polymer, SRU  
 DR 56588-99-9, 83273-04-5, 31761-39-4  
 MF (C3 H5 N O)<sub>n</sub>  
 CI PMS  
 PCT Polyamide  
 LC STN Files: BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, EMBASE, TOXCENTER,  
 USPATFULL

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



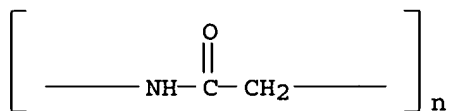
62 REFERENCES IN FILE CA (1907 TO DATE)  
 9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:123968  
 REFERENCE 2: 139:338810  
 REFERENCE 3: 136:386877  
 REFERENCE 4: 133:282326  
 REFERENCE 5: 133:177538  
 REFERENCE 6: 126:171880  
 REFERENCE 7: 122:142534  
 REFERENCE 8: 117:90757  
 REFERENCE 9: 111:7903  
 REFERENCE 10: 109:73878

L52 ANSWER 27 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 25734-27-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Poly(iminocarbonylmethylene) (8CI)  
 OTHER NAMES:  
 CN Glycine cetyl ester polymer, SRU  
 CN Glycine homopolymer )  
 CN Glycine homopolymer, SRU  
 CN Glycine N-carboxy anhydride polymer, SRU

CN Glycine polymer, SRU  
 CN Glycylglycine polymer, sru  
 CN Nylon 2  
 CN Poly(glycinamide), SRU  
 CN Poly(glycine N-carboxyanhydride), SRU  
 CN Poly(glycyl)  
 CN Polyglycine  
 CN Polyglycine, SRU  
 CN Poly[imino(2-oxo-1,2-ethanediyl)]  
 DR 121002-48-0, 25213-32-5, 93705-40-9, 75145-01-6, 88752-30-1, 408501-51-9  
 MF (C2 H3 N O)<sub>n</sub>  
 CI PMS  
 PCT Polyamide  
 LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE,  
 IFICDB, IFIPAT, IFIUDb, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

614 REFERENCES IN FILE CA (1907 TO DATE)  
 35 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 614 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:281777  
 REFERENCE 2: 143:243699  
 REFERENCE 3: 143:224397  
 REFERENCE 4: 143:212165  
 REFERENCE 5: 143:179605  
 REFERENCE 6: 143:148954  
 REFERENCE 7: 143:128768  
 REFERENCE 8: 143:54978  
 REFERENCE 9: 143:40653  
 REFERENCE 10: 142:458269

L52 ANSWER 28 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 25718-94-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Glycine, homopolymer (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Glycine, peptides (8CI)

## OTHER NAMES:

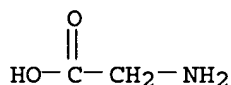
CN  $\beta$ -Polyglycine  
CN Glycine polymer  
CN Polyglycine  
CN Polyglycine homopolymer  
CN Polyglycine I  
CN Polyglycine II  
CN Polyglycine peptide  
DR 27755-98-2  
MF (C2 H5 N O2)x  
CI PMS, COM  
PCT Polyamide, Polyamide formed  
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,  
CANCERLIT, CAPLUS, CHEMCATS, CSCHM, EMBASE, IFICDB, IFIPAT, IFIUDB,  
IPA, MEDLINE, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

## \*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 56-40-6

CMF C2 H5 N O2



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

659 REFERENCES IN FILE CA (1907 TO DATE)  
37 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
659 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:284695

REFERENCE 2: 143:281777

REFERENCE 3: 143:243699

REFERENCE 4: 143:224397

REFERENCE 5: 143:212165

REFERENCE 6: 143:179605

REFERENCE 7: 143:148954

REFERENCE 8: 143:128768

REFERENCE 9: 143:54978

REFERENCE 10: 143:40653

L52 ANSWER 29 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 25667-16-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)

## (CA INDEX NAME)

## OTHER CA INDEX NAMES:

CN Poly[iminocarbonyl (p-hydroxyphenethylidene)], L- (8CI)

CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]], (S)-

## OTHER NAMES:

CN L-Tyrosine polymer, SRU

CN Poly(L-tyrosine), SRU

CN Polytyrosine

CN Polytyrosine, SRU

DR 26634-77-5, 439295-29-1

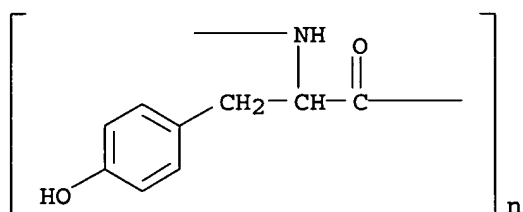
MF (C9 H9 N O2)<sub>n</sub>

CI PMS

PCT Polyamide

LC STN Files: BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE,  
TOXCENTER, USPAT2, USPATFULL

## \*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

192 REFERENCES IN FILE CA (1907 TO DATE)

22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

192 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:286003

REFERENCE 2: 143:281777

REFERENCE 3: 143:235397

REFERENCE 4: 143:60253

REFERENCE 5: 143:48209

REFERENCE 6: 143:22438

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

REFERENCE 9: 142:406011

REFERENCE 10: 142:246307

L52 ANSWER 30 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 25619-78-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

## OTHER CA INDEX NAMES:

CN Tyrosine, L-, peptides (8CI)

## OTHER NAMES:

CN L-Tyrosine polymer

CN Poly(L-tyrosine)

CN Polytyrosine

CN Tyrosine homopolymer

FS STEREOSEARCH

MF (C9 H11 N O3)x

CI PMS, COM

PCT Polyamide, Polyamide formed, Polyester, Polyester formed

LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CIN, CSCHM, DIOGENES, EMBASE, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL

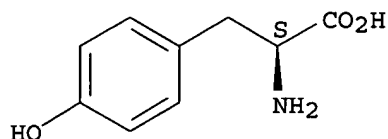
## \*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

245 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

245 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:281777

REFERENCE 2: 143:235397

REFERENCE 3: 143:60253

REFERENCE 4: 143:48209

REFERENCE 5: 143:22438

REFERENCE 6: 143:3528

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

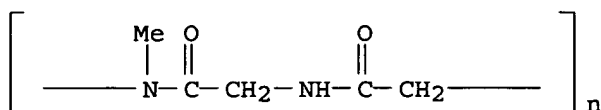
REFERENCE 9: 142:406011

REFERENCE 10: 142:356632

L52 ANSWER 31 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 25249-15-4 REGISTRY

ED Entered STN: 16 Nov 1984  
 CN Poly[(methylimino) (1-oxo-1,2-ethanediyl) imino (1-oxo-1,2-ethanediyl)] (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Poly[(methylimino) carbonylmethyleneiminocarbonylmethylene] (8CI)  
 MF (C5 H8 N2 O2)<sub>n</sub>  
 CI PMS  
 PCT Polyamide  
 LC STN Files: CA, CAPLUS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 72:3742

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 FILE LAST UPDATED: 11 Oct 2005 (20051011/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L90 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2005:592 HCAPLUS  
 DN 142:59288  
 ED Entered STN: 31 Dec 2004  
 TI Preparation of colloidal dispersion of plate-like calcium phosphate  
 IN Chane, Ching Jean Yves  
 PA Rhodia Chimie, Fr.  
 SO Fr. Demande, 16 pp.



CODEN: FRXXBL  
 DT Patent  
 LA French  
 IC ICM B01J013-00  
 ICS B01F017-14; C01B025-32; C04B016-00; A61K009-10; A61K047-02;  
 A61K007-16  
 CC 49-5 (Industrial Inorganic Chemicals)  
 Section cross-reference(s): 17, 62, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2856608	A1	20041231	FR 2003-7879	20030630
	WO 2005002720	A2	20050113	WO 2004-FR1647	20040628
	WO 2005002720	A3	20050317		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,				
	SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				
	SN, TD, TG				

PRAI FR 2003-7879 A 20030630

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
FR 2856608	ICM	B01J013-00
	ICS	B01F017-14; C01B025-32; C04B016-00; A61K009-10; A61K047-02; A61K007-16
FR 2856608	ECLA	B01J013/00B2B; C01B025/32; C01B025/32D
WO 2005002720	ECLA	B01J013/00B2B; C01B025/32; C01B025/32D

AB Colloidal dispersion of plate-like calcium phosphate containing at least one Ca-complexing polymer are prepared. The plate-like crystals have a length of 5-500 nm and a thickness of 0.5-20 nm. The produced calcium phosphate has a monetite or apatite structure. The Ca-complexing polymer can be polyaspartic acid, polyglutamic acid, polylysine, polyglycine, homopolymers or copolymers of acrylic acid or methacrylic acid, polyacrylic acid-polyacrylamide, polysaccharides which can be modified with guar, CM-cellulose, xanthan gum, or polysaccharides modified with phosphate or phosphonate functions, or peptides containing phosphate groups. A dispersant, especially sodium tripolyphosphate, is added to the dispersion. The dispersion is prepared by adding a solution of (NH<sub>4</sub>)<sub>2</sub>(HPO<sub>4</sub>) or (NH<sub>4</sub>)<sub>2</sub>(H<sub>2</sub>PO<sub>4</sub>) and a calcium-complexing polymer to a solution containing a calcium salt, especially

CaCl<sub>2</sub> or Ca(NO<sub>3</sub>)<sub>2</sub>, having a pH of 4-6, heating the obtained dispersion to 60-90°, washing the dispersion, adding a dispersant, and separating the colloidal dispersion. The colloidal dispersions can be used as food additives, heat insulators, pharmaceutical excipient, agent for oral formulations, in particular toothpastes, or encapsulation agents.

ST colloidal dispersion calcium phosphate plate dispersant calcium complexing polymer

IT Colloids

Dispersion (of materials)

Food additives

(preparation of colloidal dispersion of plate-like calcium phosphate)

IT Acrylic polymers, uses

Phosphopeptides

Polysaccharides, uses

RL: MOA (Modifier or additive use); USES (Uses)

(preparation of colloidal dispersion of plate-like calcium phosphate)

IT 7758-29-4, Sodium tripolyphosphate

RL: NUU (Other use, unclassified); USES (Uses)

(dispersant; preparation of colloidal dispersion of plate-like calcium phosphate)

IT 1306-06-5P, Apatite 21063-37-6P, Monetite

RL: CPS (Chemical process); IMF (Industrial manufacture); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process); USES (Uses)

(preparation of colloidal dispersion of plate-like calcium phosphate)

IT 1336-21-6, Ammonium hydroxide

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)

(preparation of colloidal dispersion of plate-like calcium phosphate)

IT 7783-28-0 10035-04-8, Calcium chloride dihydrate 10124-37-5, Calcium nitrate (Ca(NO<sub>3</sub>)<sub>2</sub>)

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)

(preparation of colloidal dispersion of plate-like calcium phosphate)

IT 9003-06-9, Acrylamide-acrylic acid copolymer 25104-18-1, Polylysine

25513-46-6, Polyglutamic acid 25718-94-9, Polyglycine

34345-47-6, Polyaspartic acid, sodium salt

RL: MOA (Modifier or additive use); USES (Uses)

(preparation of colloidal dispersion of plate-like calcium phosphate)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Anon; PATENT ABSTRACTS OF JAPAN 2000, V2000(08)

(2) Constantz, B; US 5782971 A 1998 HCAPLUS

(3) Griffith, E; US 4721615 A 1988 HCAPLUS

(4) Nagata, F; US 5427754 A 1995 HCAPLUS

(5) New Raimu Kenkyusha Kk; JP 2000128513 A 2000 HCAPLUS

IT 25718-94-9, Polyglycine

RL: MOA (Modifier or additive use); USES (Uses)

(preparation of colloidal dispersion of plate-like calcium phosphate)

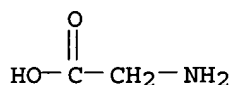
RN 25718-94-9 HCAPLUS

CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6

CMF C2 H5 N O2



L90 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:451470 HCAPLUS

DN 140:428719

ED Entered STN: 04 Jun 2004

TI Hydrogel dental compositions with an erodible backing member

IN Singh, Parminder; Faasse, Adrian; Cleary, Gary W.; Mudumba, Sri;

Feldstein, Mikhail M.; Bairamov, Danir R.

PA Corium International, USA; A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences

SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 359,548.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM A61K007-06  
 ICS A61K007-11  
 INCL 424070130; 424070160  
 CC 62-7 (Essential Oils and Cosmetics)  
 FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004105834	A1	20040603	US 2003-661103	20030912
	US 2003170308	A1	20030911	US 2002-137664	20020501
	US 2003152528	A1	20030814	US 2003-359548	20030205
	WO 2005027768	A2	20050331	WO 2004-US29620	20040909
	WO 2005027768	A3	20050707		
	W:				
	AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG,				
	BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,				
	CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, EG,				
	ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL,				
	IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ,				
	LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX,				
	MX, MZ, MZ, NA				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,				
	SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				
	SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				
	SN, TD, TG				
PRAI	US 2001-288008P	P	20010501		
	US 2002-137664	A2	20020501		
	US 2003-359548	A2	20030205		
	US 2003-661103	A	20030912		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004105834	ICM	A61K007-06
	ICS	A61K007-11
	INCL	424070130; 424070160
US 2004105834	NCL	424/070.130
	ECLA	A61K006/00; A61K008/22; A61K008/73C; A61K008/81K4; A61K008/81R; A61K008/81R2; A61K008/86; A61L015/60; A61L015/60+C08L53/00; A61Q011/00
US 2003170308	NCL	424/486.000
	ECLA	A61K008/22; A61K008/73C; A61K008/81K4; A61K008/81R; A61K008/81R2; A61K008/86; A61L015/60; A61L015/60+C08L53/00; A61Q011/00
US 2003152528	NCL	424/053.000
	ECLA	A61K008/22; A61K008/73C; A61K008/81K4; A61K008/81R; A61K008/81R2; A61K008/86; A61L015/60; A61L015/60+C08L53/00; A61Q011/00

AB A composition is provided, wherein the composition comprises a water-swellable, water-insol. polymer, a blend of a hydrophilic polymer with a complementary oligomer capable of hydrogen or electrostatic bonding to the hydrophilic polymer. The composition also includes a backing member. Active ingredients, such as a whitening agent, may be included. The composition finds utility as an oral dressing, e.g., a tooth whitening composition that is applied to the teeth in need of whitening. The composition can be designed to be removed when the degree of whitening has been achieved or left in place and allowed to erode entirely. In certain embodiments, the composition is

translucent. Methods for preparing and using the compns. are also disclosed. A composition for tooth whitening is prepared from the following ingredients by using a melt extrusion process: Eudragit L100-55 9, PVP 44, PEG 22, H2O2 6, and water and stabilizers and pH modulators 19 weight%.

- ST hydrogel dentifrice polymer erodible
- IT Medical goods
  - (dressings; hydrogel dental compns. with erodible backing member)
- IT Cinnamon (spice)
  - Dentifrices**
  - Dyes
  - Fillers
  - Flavor
  - Hydrogels
  - Mentha piperita
  - Mentha spicata
  - Pigments, nonbiological
  - Preservatives
  - Spices
  - Stabilizing agents
  - Sweetening agents
  - Thickening agents
  - Tooth
  - Vanilla
  - Wintergreen
  - (hydrogel dental compns. with erodible backing member)
- IT Chlorites
  - Hydroperoxides
  - Peroxides, biological studies
  - Peroxy acids
  - Polymer blends
  - Polymers, biological studies
  - Polyoxyalkylenes, biological studies
  - Protamines
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (hydrogel dental compns. with erodible backing member)
- IT Group IIIA element compounds
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (perborates; hydrogel dental compns. with erodible backing member)
- IT Alcohols, biological studies
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (polyhydric; hydrogel dental compns. with erodible backing member)
- IT Vinyl compounds, biological studies
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (polymers; hydrogel dental compns. with erodible backing member)
- IT 57-48-7, Fructose, biological studies 57-50-1, Sucrose, biological studies 79-06-1D, Acrylamide, polymers 79-10-7D, Acrylic acid, polymers 79-41-4D, Methacrylic acid, polymers 80-62-6D, Methyl methacrylate, polymers 81-07-2, Saccharin 87-99-0, Xylitol 89-78-1, Menthol 96-33-3D, Methyl acrylate, polymers 97-63-2D, Ethyl methacrylate, polymers 124-43-6 140-88-5D, Ethyl acrylate, polymers 563-69-9D, Carbonoperoxoic acid, derivs. 1305-79-9, Calcium peroxide 7722-84-1, Hydrogen peroxide, biological studies 7758-19-2, Sodium chlorite 9002-89-5, Poly(vinyl alcohol) 9004-32-4, Sodium carboxymethyl cellulose 9004-34-6D, Cellulose, esters 9004-35-7, Cellulose acetate 9004-36-8, Cellulose acetate butyrate 9004-39-1, Cellulose acetate propionate 9004-48-2, Cellulose propionate

9004-57-3, Ethyl cellulose 9004-62-0, Hydroxyethyl cellulose  
 9004-64-2, Hydroxypropyl cellulose 9004-65-3,  
 Hydroxypropylmethylcellulose 9004-67-5, Methyl cellulose 9005-25-8,  
 Starch, biological studies 9005-32-7, Alginic acid 9005-35-0, Calcium  
 alginate 9005-37-2, Propylene glycol alginate 9005-38-3, Sodium  
 alginate 9012-09-3, Cellulose triacetate 9015-12-7, Cellulose butyrate  
 9015-16-1, Cellulose propionate butyrate 9035-69-2, Cellulose diacetate  
 9045-28-7, Starch acetate 10049-04-4, Chlorine dioxide 14314-27-3,  
 Potassium chlorite 14380-61-1, Hypochlorite 14452-57-4, Magnesium  
 peroxide 14674-72-7, Calcium chlorite 14674-74-9, Barium chlorite  
 17188-11-3, Magnesium chlorite 22839-47-0, Aspartame 25086-15-1,  
 Eudragit L 100 25104-18-1, Polylysine 25191-17-7, Polyalanine  
 25212-88-8, Eudragit L 100-55 25213-34-7, Polyalanine 25718-94-9  
 , Polyglycine 25734-27-4, Polyglycine, SRU 26336-38-9,  
 Poly(vinylamine) 27505-49-3, Lithium chlorite 38000-06-5, Polylysine  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological  
 study); USES (Uses)

(hydrogel dental compns. with erodible backing member)

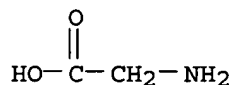
IT 25718-94-9, Polyglycine 25734-27-4, Polyglycine, SRU  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological  
 study); USES (Uses)

(hydrogel dental compns. with erodible backing member)

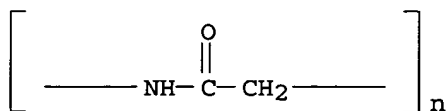
RN 25718-94-9 HCAPLUS  
 CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6  
 CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS  
 CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:805562 HCAPLUS  
 DN 138:23877  
 ED Entered STN: 23 Oct 2002  
 TI Production of off-odor volatiles from liposome-containing amino acid  
 homopolymers by irradiation  
 AU Ahn, D. U.; Lee, E. J.  
 CS Department of Animal Science, Iowa State University, Ames, IA, 50011-3150,  
 USA  
 SO Journal of Food Science (2002), 67(7), 2659-2665  
 CODEN: JFDSA; ISSN: 0022-1147  
 PB Institute of Food Technologists  
 DT Journal

LA English  
CC 17-2 (Food and Feed Chemistry)  
Section cross-reference(s): 8  
AB Irradiation not only generated many new volatiles but also destroyed some volatiles already present in nonirradiated amino acid homopolymer-in-liposome meat models. The amts. of some volatiles greatly increased, but others significantly decreased after irradiation. The majority of newly generated and increased volatiles by irradiation were sulfur compds., indicating that sulfur amino acids are the most susceptible to changes by irradiation. More than one site in the amino acid side chains was labile to free radical attack, and many volatiles were produced by the secondary chemical reactions after the primary radiolytic degradation of side chains. Although nonirradiated samples also produced some sulfury notes, irradiated samples produced a much stronger and astringent sulfury odor than nonirradiated samples.  
ST amino acid liposome volatile formation odor irradiated meat model  
IT Amino acids, miscellaneous  
RL: MSC (Miscellaneous)  
(acidic; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Amino acids, miscellaneous  
RL: MSC (Miscellaneous)  
(aliphatic; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Amides, miscellaneous  
RL: MSC (Miscellaneous)  
(amino; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Amino acids, miscellaneous  
RL: MSC (Miscellaneous)  
(aromatic; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Amino acids, miscellaneous  
RL: MSC (Miscellaneous)  
(basic; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Amino acids, miscellaneous  
RL: MSC (Miscellaneous)  
(hydroxy; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Electron beams  
(irradiation; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Food  
(model; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT **Odor and Odorous substances**  
(off-odor; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Polyamides, miscellaneous  
RL: MSC (Miscellaneous)  
(poly(amino acids); volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Amino acids, miscellaneous  
RL: MSC (Miscellaneous)  
(sulfur-containing; volatiles from liposome-amino acid homopolymers in irradiated food models)  
IT Liposomes  
Volatile substances  
(volatiles from liposome-amino acid homopolymers in irradiated food)

models)

IT 60-29-7, 1,1'-Oxybis ethane, formation (nonpreparative) 67-64-1, 2-Propanone, formation (nonpreparative) 71-43-2, Benzene, formation (nonpreparative) 74-93-1, Methane thiol, formation (nonpreparative) 75-15-0, Carbon disulfide, formation (nonpreparative) 75-18-3, Dimethyl sulfide 75-65-0, 2-Methyl-2-propanol, formation (nonpreparative) 75-91-2, 1,1-Dimethylethyl hydroperoxide 75-97-8, 3,3-Dimethyl-2-butanone 78-84-2, 2-Methyl propanal 96-54-8, 1-Methyl pyrrole 100-41-4, Ethyl benzene, formation (nonpreparative) 106-98-9, 1-Butene, formation (nonpreparative) 108-38-3, 1,3-Dimethylbenzene, formation (nonpreparative) 108-88-3, Toluene, formation (nonpreparative) 109-66-0, Pentane, formation (nonpreparative) 109-68-2, 2-Pentene 110-54-3, Hexane, formation (nonpreparative) 111-65-9, Octane, formation (nonpreparative) 123-72-8, Butanal 123-91-1, 1,4-Dioxane, formation (nonpreparative) 141-78-6, Ethyl acetate, formation (nonpreparative) 590-86-3, 3-Methylbutanal 615-29-2, 4-Methyl-3-hexanol 624-89-5, Methylthio ethane 624-92-0, Dimethyl disulfide 1072-43-1, Methyl thiirane 1330-20-7, Xylene, formation (nonpreparative) 1630-94-0, 1,1-Dimethyl cyclopropane 2679-87-0, 2-Ethoxy butane 3658-80-8, Dimethyl trisulfide 5756-24-1, Dimethyl tetrasulfide 7319-16-6, 1-Methoxy-1-propene 7446-09-5, Sulfur dioxide, formation (nonpreparative) 20333-39-5, Methyl ethyl disulfide 27137-41-3, Methylfuran

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)  
(volatiles from liposome-amino acid homopolymers in irradiated food models)

IT 70-18-8, Glutathione, miscellaneous 14517-45-4 24991-23-9 25104-18-1, Poly-L-lysine 25191-17-7, Poly-L-alanine 25248-98-0, Poly-L-leucine 25608-40-6, Poly-L-aspartic acid 25619-78-7, Poly-L-tyrosine 25718-94-9, Polyglycine 26062-48-6, Poly-L-histidine 28088-48-4, Poly-L-asparagine 82822-12-6, Poly-L-threonine

RL: MSC (Miscellaneous)  
(volatiles from liposome-amino acid homopolymers in irradiated food models)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ahn, D; J Food Sci 1997, V62(5), P954 HCAPLUS
- (2) Ahn, D; J Food Sci 1998, V63(1), P15 HCAPLUS
- (3) Ahn, D; J Food Sci 1999, V64(2), P226 HCAPLUS
- (4) Ahn, D; J Food Sci. Forthcoming 2002
- (5) Ahn, D; Meat Sci 1998, V49(1), P27 HCAPLUS
- (6) Ahn, D; Meat Sci 2000, V54, P209 HCAPLUS
- (7) Ahn, D; Meat Sci 2001, V57, P419 HCAPLUS
- (8) Diehl, J; Safety of irradiated foods. 2nd ed 1995, P43
- (9) Du, M; Meat Sci 2001, V60(1), P9
- (10) Du, M; Poultry Sci Forthcoming 2001
- (11) Hashim, I; J Food Sci 1995, V60(4), P664 HCAPLUS
- (12) Heath, J; Poultry Sci 1990, V69, P313 HCAPLUS
- (13) Jo, C; J Food Sci 2000, V65(4), P612 HCAPLUS
- (14) Lee, E; J Food Sci Submitted 2002
- (15) Merritt, C; J Agric Food Chem 1975, V23, P1037 HCAPLUS
- (16) Merritt, C; J Agric Food Chem 1978, V26, P29 HCAPLUS
- (17) Patterson, R; Br Poultry Sci 1995, V36, P425 MEDLINE
- (18) SAS Institute Inc; SAS user's guide 1989

IT 25718-94-9, Polyglycine

RL: MSC (Miscellaneous)  
(volatiles from liposome-amino acid homopolymers in irradiated food models)

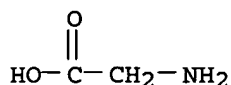
RN 25718-94-9 HCAPLUS

CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6

CMF C2 H5 N O2



L90 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:805545 HCAPLUS

DN 138:23874

ED Entered STN: 23 Oct 2002

TI Production of volatiles from amino acid homopolymers by irradiation

AU Ahn, D. U.

CS Dept. of Animal Science, Iowa State Univ., Ames, IA, 50011-3150, USA

SO Journal of Food Science (2002), 67(7), 2565-2570

CODEN: JFDSA; ISSN: 0022-1147

PB Institute of Food Technologists

DT Journal

LA English

CC 17-2 (Food and Feed Chemistry)

Section cross-reference(s): 8

AB Amino acid homopolymers were used to determine production of radiolytic volatiles

by irradiation Many new volatiles were generated, and the amts. of volatiles in amino acid homopolymers changed after irradiation Each amino acid homopolymer group produced different odor characteristics, but the intensities of odor from all amino acid groups were weak, except for sulfur-containing amino acids. Sulfur-containing amino acids produced various sulfur compds.; the overall odor intensity of irradiated sulfur amino acids was very high and the odor characteristics of sulfur amino acids were similar to irradiation odor of meat. The contribution of methionine to the irradiation odor would be far greater than that of cysteine.

ST amino acid odor volatile formation irradiatn meat model

IT Electron beams

(irradiation; volatiles from amino acid homopolymers in irradiated food models)

IT Polyamides, miscellaneous

RL: MSC (Miscellaneous)

(poly(amino acids); volatiles from amino acid homopolymers in irradiated food models)

IT Amino acids, miscellaneous

RL: MSC (Miscellaneous)

(sulfur-containing; volatiles formation in irradiated food models)

IT Meat

**Odor and Odorous substances**

Volatile substances

(volatiles from amino acid homopolymers in irradiated food models)

IT 52-90-4, L-Cysteine, miscellaneous 56-40-6, Glycine, miscellaneous

56-41-7, L-Alanine, miscellaneous 56-45-1, L-Serine, miscellaneous

56-84-8, L-Aspartic acid, miscellaneous 56-85-9, L-Glutamine,

miscellaneous 56-86-0, L-Glutamic acid, miscellaneous 56-87-1,

L-Lysine, miscellaneous 60-18-4, L-Tyrosine, miscellaneous 63-68-3,

L-Methionine, miscellaneous 70-47-3, L-Asparagine, miscellaneous



71-00-1, L-Histidine, miscellaneous 72-19-5, L-Threonine, miscellaneous  
 147-85-3, L-Proline, miscellaneous  
 RL: MSC (Miscellaneous)

(volatiles formation in irradiated food models)

IT 60-29-7, 1,1'-Oxybisethane, formation (nonpreparative) 64-17-5, Ethanol, formation (nonpreparative) 66-25-1, Hexanal 67-64-1, 2-Propanone, formation (nonpreparative) 71-43-2, Benzene, formation (nonpreparative) 74-93-1, Mercaptomethane, formation (nonpreparative) 75-05-8, Acetonitrile, formation (nonpreparative) 75-07-0, Acetaldehyde, formation (nonpreparative) 75-15-0, Carbon disulfide, formation (nonpreparative) 75-18-3, Dimethyl sulfide 75-21-8, Oxirane, formation (nonpreparative) 78-78-4, 2-Methyl butane 78-83-1, formation (nonpreparative) 78-84-2, 2-Methyl propanal 78-93-3, 2-Butanone, formation (nonpreparative) 79-20-9, Acetic acid, methyl ester 96-17-3, 2-Methyl butanal 96-37-7, Methyl cyclopentane 96-41-3, Cyclopentanol 97-96-1, 2-Ethyl butanal 98-82-8, Isopropyl benzene 100-41-4, Ethyl benzene, formation (nonpreparative) 106-42-3, 1,4-Dimethyl benzene, formation (nonpreparative) 108-20-3, 2,2'-Oxybispropane 108-38-3, 1,3-Dimethyl benzene, formation (nonpreparative) 108-88-3, Toluene, formation (nonpreparative) 109-99-9, Tetrahydrofuran, formation (nonpreparative) 110-54-3, Hexane, formation (nonpreparative) 110-62-3, Pentanal 110-82-7, Cyclohexane, formation (nonpreparative) 115-11-7, 2-Methyl-1-propene, formation (nonpreparative) 123-72-8, Butanal 123-91-1, 1,4-Dioxane, formation (nonpreparative) 141-78-6, Acetic acid ethyl ester, formation (nonpreparative) 497-26-7, 2-Methyl-1,3-dioxolane 543-75-9, 2,3-Dihydro-1,4-dioxin 554-12-1, Methyl propionate 590-86-3, 3-Methyl butanal 623-42-7, Methyl butyrate 624-89-5, (Methylthio)ethane 624-92-0, Dimethyl disulfide 637-92-3, 2-Ethoxy-2-methylpropane 1072-43-1, Methyl thiirane 1534-08-3, Ethanethioic acid, S-methyl ester 1618-26-4, 2,4-Dithiapentane 1634-04-4, 2-Methoxy-2-methylpropane 1639-09-4, 1-Heptanethiol 1823-52-5, 4,4-Dimethyl-2-oxetanone 2679-87-0, 2-Ethoxy butane 6163-64-0, 2-Methyl-2-(methylthio)propane 10152-76-8, 3-(Methylthio)-1-propene 13952-84-6, 2-Butanamine 20333-39-5, Methyl ethyl disulfide

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)

(volatiles from amino acid homopolymers in irradiated food models)

IT 70-18-8, Glutathione, miscellaneous 3061-96-9 14517-45-4 25104-18-1, Polylysine 25191-13-3, Polyproline 25191-17-7, Polyalanine 25513-46-6, Polyglutamic acid 25608-40-6, Polyaspartic acid 25619-78-7, Polytyrosine 25718-94-9, Polyglycine 25821-52-7, Polyserine 26062-48-6, Polyhistidine 26700-71-0, Polyglutamine 28088-48-4, Polyasparagine 82822-12-6, Polythreonine

RL: MSC (Miscellaneous)

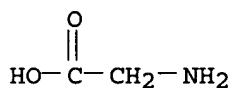
(volatiles from amino acid homopolymers in irradiated food models)

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ahn, D; J Food Sci 1997, V62(5), P954 HCAPLUS
- (2) Ahn, D; J Food Sci 1998, V63(1), P15 HCAPLUS
- (3) Ahn, D; J Food Sci 1999, V64(2), P226 HCAPLUS
- (4) Ahn, D; Meat Sci 1998, V49(1), P27 HCAPLUS
- (5) Ahn, D; Meat Sci 2000, V54, P209 HCAPLUS
- (6) Ahn, D; Meat Sci 2001, V57, P419 HCAPLUS
- (7) Buttery, R; J Agric Food Chem 1973, V21(1), P198
- (8) Chen, X; J Food Sci 1999, V64(1), P16 HCAPLUS
- (9) Du, M; Meat Sci 2001, V60(1), P9
- (10) Du, M; Poultry Sci Forthcoming 2001
- (11) Godshall, M; Food Technol 1997, V51(1), P63 HCAPLUS
- (12) Hashim, I; J Food Sci 1995, V60(4), P664 HCAPLUS
- (13) Heath, J; Poultry Sci 1990, V69, P313 HCAPLUS

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 (15) Jo, C; J Food Sci 2000, V65(4), P612 HCAPLUS  
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 (17) Patterson, R; Br Poultry Sci 1995, V36, P425 MEDLINE  
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 IT 25718-94-9, Polyglycine  
 RL: MSC (Miscellaneous)  
 (volatiles from amino acid homopolymers in irradiated food models)  
 RN 25718-94-9 HCAPLUS  
 CN Glycine, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 56-40-6  
 CMF C2 H5 N O2



L90 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:693115 HCAPLUS  
 DN 137:221793  
 ED Entered STN: 13 Sep 2002  
 TI **Antiwrinkle cosmetic** composition containing a  
 derivative of polyamino acids,  
 IN **Philippe, Michel; Benard, Sylvie**  
 PA **L'Oreal, Fr.**  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA French  
 IC ICM A61K007-48  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 34  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1238655	A1	20020911	EP 2002-290454	20020225
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	FR 2821550	A1	20020906	FR 2001-2979	20010305
	FR 2821550	B1	20040423		
	CA 2374147	AA	20020905	CA 2002-2374147	20020304
	US 2002155991	A1	20021024	US 2002-86451	20020304
	JP 2002255732	A2	20020911	JP 2002-59518	20020305
PRAI	FR 2001-2979	A	20010305		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1238655	ICM	A61K007-48
US 2002155991	NCL	514/002.000

AB **Antiwrinkle cosmetics** containing polyamino acids are prepared (Markush structure given). N-carboxyanhydride tyrosine 20, sodium methylate in methanol 0.51 g, and THF 200 mL were mixed and heated for 6 h at 60° to obtain a polyamino acid (yield 96%). Formulation of an

**antiwrinkle** cream containing 7% of above polyamino acid is disclosed.

ST polyamino acid skin wrinkle cosmetic

IT DNA

Lactalbumins

Protein hydrolyzates

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

IT **Cosmetics**

(creams, wrinkle-preventing; **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

IT Polyamides, biological studies

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(poly(amino acids); **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

IT Proteins

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(soybean; **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

IT **Cosmetics**

(wrinkle-preventing; **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

IT 462117-51-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(**antiwrinkle cosmetic** composition containing derivative of polyamino acids)

IT 457625-03-5P 457625-04-6P 457625-05-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

IT 56-87-1, Lysine, reactions 124-41-4, Sodium methylate 3415-08-5 5840-76-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Bakhoo, M; US 5629282 A 1997 HCAPLUS

(2) Gibbons, W; GB 2217319 A 1989 HCAPLUS

(3) Lion Corp; DE 3724460 A 1988 HCAPLUS

(4) Th Goldschmidt Ag; EP 0958811 A 1999 HCAPLUS

(5) Th Goldschmidt Ag; EP 0959092 A 1999 HCAPLUS

(6) Unilever Plc; WO 9937279 A 1999 HCAPLUS

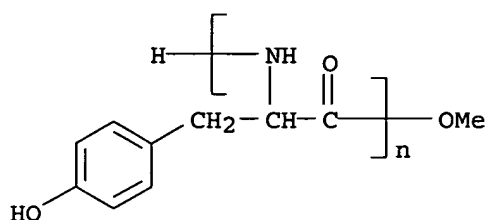
IT 457625-03-5P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)

RN 457625-03-5 HCAPLUS

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]],  $\alpha$ -hydro- $\omega$ -methoxy- (9CI) (CA INDEX NAME)



L90 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:384341 HCAPLUS  
 DN 136:386877  
 ED Entered STN: 23 May 2002  
 TI Macro monomer containing polyamino acid segments and their copolymers for  
**cosmetics**  
 IN Sakakibara, Makoto  
 PA Kao Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C08G069-48  
 ICS A61K007-00; C08F299-02  
 CC 37-2 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 62

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002146010	A2	20020522	JP 2000-351149	20001117
PRAI JP 2000-351149		20001117		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002146010	ICM	C08G069-48
	ICS	A61K007-00; C08F299-02

AB The macro monomer H<sub>2</sub>C:C(R<sub>1</sub>)CO[N(R<sub>2</sub>)C(R<sub>3</sub>)(R<sub>4</sub>)CO]<sub>n</sub>X (R<sub>1</sub>-4 = H, CC1-22 linear or branched alkyl, C6-22 cycloalkyl, C7-22 aralkyl, C6-22 aryl; n = 1-500; X = hetero atom) is prepared by reaction of a polyamino acid having repeating union -N(R<sub>2</sub>)C(R<sub>3</sub>)(R<sub>4</sub>)CO- (e.g. homopolymer of N-methylglycine N-carboxy anhydride) with a polymerizable unsatd. group-containing carboxylic acid or its derivs (e.g., acrylic acid chloride). The homopolymers or copolymers obtained from the macro monomers are useful for **cosmetics**.

ST polyamino acid unsatd carboxylate macro monomer; **cosmetic**  
 polyamino acid macro monomer polymn; methylglycine carboxylic anhydride  
 acrylic chloride reaction

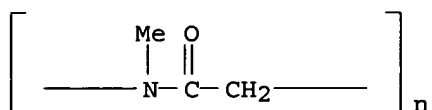
IT Polyamides, preparation  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (acrylic; macro monomer containing polyamino acid segments and their  
 copolymers for **cosmetics**)

IT **Cosmetics**  
 (liqs.; macro monomer containing polyamino acid segments and their  
 copolymers for **cosmetics**)

IT Macromonomers  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
 (Reactant or reagent)

(macro monomer containing polyamino acid segments and their copolymers for cosmetics)

- IT 80-62-6DP, Methyl methacrylate, reaction products with poly(N-methylglycine) acrylate 141-32-2DP, Butyl acrylate, reaction products with poly(N-methylglycine) acrylate 25951-24-ODP, Poly(N-Methylglycine), acrylates, polymers 26521-10-8DP, Poly(N-Methylglycine), sru, acrylates, polymers  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (macro monomer containing polyamino acid segments and their copolymers for cosmetics)
- IT 814-68-6DP, 2-Propenoyl chloride, reaction products with poly(N-methylglycine) 25951-24-ODP, Poly(N-Methylglycine), reaction products with acrylic chloride 26521-10-8DP, Poly(N-Methylglycine), sru, reaction products with acrylic chloride  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (macro monomer containing polyamino acid segments and their copolymers for cosmetics)
- IT 5840-76-6, N-Methylglycine N-carboxy anhydride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (macro monomer containing polyamino acid segments and their copolymers for cosmetics)
- IT 26521-10-8DP, Poly(N-Methylglycine), sru, acrylates, polymers  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (macro monomer containing polyamino acid segments and their copolymers for cosmetics)
- RN 26521-10-8 HCAPLUS  
 CN Poly[(methylinino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (macro monomer contg. polyamino acid segments and their copolymers for cosmetics)

L90 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:95630 HCAPLUS  
 DN 136:123606  
 ED Entered STN: 06 Feb 2002  
 TI Health-care composition for preventing and treating radiation damage  
 IN Li, Xiaokun; Xu, Hua; Feng, Chengli; Hong, An  
 PA Medical Biological Technology Research Development Centre, Guangzhou Jinan Univ., Peop. Rep. China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 IC ICM A61K038-22  
 ICS A61P039-00  
 CC 63-6 (Pharmaceuticals)  
 Section cross-reference(s): 17, 62  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1303713	A	20010718	CN 2000-114008	20000107
PRAI	CN 2000-114008		20000107		

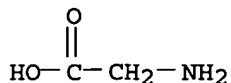
## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	CN 1303713	ICM	A61K038-22
		ICS	A61P039-00
AB	A health-care composition is composed of total Panax saponin 0.1-10% (weight/volume), spirulina polysaccharide 1-20% (weight/volume), and thymosin- $\alpha$ 0.01-100 mg mL <sup>-1</sup> . The health-care composition may contain N-acetylcysteine, salicylic acid derivative, angelica polysaccharide, Bupleurum polysaccharide, and/or Astragalus polysaccharide, etc. The health-care composition may be used as additive for health-care products, preferably <b>cosmetics</b> . A <b>cosmetic</b> containing the health-care composition may contain UV absorbent, anti-inflammatory agent, antioxidant, benzofuran derivative, metal ion complexing agent, and/or skin permeating agent.		
ST	saponin polysaccharide medicinal compn <b>cosmetic</b>		
IT	Radiation (damage; health-care composition for preventing and treating radiation damage)		
IT	Angelica Astragalus Bupleurum <b>Cosmetics</b> Drug delivery systems Panax (health-care composition for preventing and treating radiation damage)		
IT	Carbohydrates, biological studies Collagens, biological studies Polyoxyalkylenes, biological studies Saponins RL: COS (Cosmetic use); FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (health-care composition for preventing and treating radiation damage)		
IT	Alcohols, biological studies RL: COS (Cosmetic use); FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (lanolin; health-care composition for preventing and treating radiation damage)		
IT	50-81-7, Vitamin C, biological studies 56-81-5, Glycerol, biological studies 63-42-3, Lactose 69-72-7, Salicylic acid, biological studies 99-76-3, Methyl 4-hydroxybenzoate 110-27-0, Isopropyl myristate 7647-14-5, Sodium chloride, biological studies 12737-61-0, Polyglycerol methacrylate 25104-18-1, Poly(lysine) 25322-68-3, Polyethylene glycol 25718-94-9, Poly(glycine) 25734-27-4, Poly(glycine) 31566-31-1, Glycerol monostearate 38000-06-5, Poly(lysine) RL: <b>COS (Cosmetic use)</b> ; FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (health-care composition for preventing and treating radiation damage)		
IT	61512-21-8, Thymosin RL: COS (Cosmetic use); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (health-care composition for preventing and treating radiation damage)		
IT	25718-94-9, Poly(glycine) 25734-27-4, Poly(glycine) RL: <b>COS (Cosmetic use)</b> ; FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (health-care composition for preventing and treating radiation damage)		

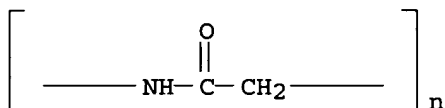
RN 25718-94-9 HCAPLUS  
 CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6  
 CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS  
 CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2001:791880 HCAPLUS  
 DN 135:348877  
 ED Entered STN: 31 Oct 2001  
 TI Cooling agents containing caffeine derivatives for pharmaceutical composition  
 IN Matsushima, Hiroaki; Okumura, Shigetoshi; Morioka, Shigeo  
 PA Rohto Pharmaceutical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K045-00  
 ICS A61K047-22; A61P011-02; A61P027-02  
 CC 63-6 (Pharmaceuticals)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001302545	A2	20011031	JP 2001-39116	20010215
PRAI	JP 2000-36557	A	20000215		

#### CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001302545	ICM	A61K045-00
	ICS	A61K047-22; A61P011-02; A61P027-02

OS MARPAT 135:348877

AB The invention relates to a method for refrigerating a composition, especially mucosal pharmaceutical composition, without causing unwanted sensory, e.g. unwanted odor and irritation, wherein the composition contains caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxifylline, and/or related compound. An eye drop containing caffeine anhydride 3, tetrahydrozoline hydrochloride 0.5, neostigmine methylsulfate 0.05, pyridoxin hydrochloride 1, potassium aspartate 10, benzalchonium chloride 0.1, boric acid 5, NaOH q.s., and water q.s. to 1000 mL was formulated.

ST caffeine deriv cooling agent mucosal pharmaceutical  
 IT **Skin preparations (pharmaceutical)**  
 (astringents; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Allergy inhibitors  
 Anti-inflammatory agents  
 Antibiotics  
 Antihistamines  
 Coolants  
 (cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Amino acids, biological studies  
 Carbohydrates, biological studies  
 Sulfonamides  
 Vitamins  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Contact lenses  
 (disinfectant composition for; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Disinfectants  
 (for contact lenses; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Eye, disease  
 (hyperemia, treatment of; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Tocopherols  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (mucosal compns. containing active agents and cooling agents containing caffeine derivs.)  
 IT Drug delivery systems  
 (mucosal; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Eye  
 (muscle, controlling agent; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Drug delivery systems  
 (nasal; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Drug delivery systems  
 (ointments, ophthalmic; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT Drug delivery systems  
 (solns., ophthalmic; cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 83-67-0, Theobromine 479-18-5, Diprophylline 603-00-9, Proxyphylline 6493-05-6, Pentoxifylline  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cooling agents containing caffeine derivs. for pharmaceutical composition)  
 IT 50-99-7, D-Glucose, biological studies 51-43-4, Epinephrine 51-60-5, Neostigmine methylsulfate 56-84-8, L-Aspartic acid, biological studies 58-56-0, Pyridoxine hydrochloride 58-73-1, Diphenhydramine 58-95-7, Tocopherol acetate 59-42-7, Phenylephrine 60-32-2 65-23-6, Pyridoxine 68-19-9, Cyanocobalamine 68-26-8, Retinol 79-83-4, Pantothenic acid 81-13-0, Panthenol 84-22-0, Tetrahydrozoline 97-59-6, Allantoin 107-35-7 113-92-8, Chlorpheniramine 113-92-8, Chlorpheniramine maleate 119-36-8, Methyl salicylate 121-54-0 127-69-5, Sulfisoxazole 146-14-5, Flavin adenine dinucleotide 299-42-3, Ephedrine 515-64-0, Sulfisomidine 522-48-5, Tetrahydrozoline



hydrochloride 550-99-2, Naphazoline hydrochloride 552-79-4,  
 Methylephedrine 633-65-8, Berberine chloride 723-46-6,  
 Sulfamethoxazole 835-31-4, Naphazoline 1405-86-3, Glycyrrhizinic acid  
 1837-57-6, Acrinol 7440-66-6, Zinc, biological studies 7773-52-6,  
 Cetylpyridinium 9001-63-2, Lysozyme 9002-89-5, Polyvinyl alcohol  
 9004-61-9, Hyaluronic acid 9007-28-7, Chondroitin sulfate 9082-07-9,  
 Sodium chondroitin sulfate 13946-02-6, Iproheptine 14007-45-5,  
 Potassium aspartate 15686-51-8, Clemastine 16110-51-3, Cromoglycic  
 acid 25718-94-9D, Polyglycine, alkylaminoethyl derivs  
 25734-27-4D, Polyglycine, alkylaminoethyl derivs 34580-13-7,  
 Ketotifen 50847-11-5, Ibudilast 53902-12-8, Tranilast 58581-89-8,  
 Azelastine 68302-57-8, Amlexanox 68797-35-3, Dipotassium  
 Glycyrrhizinate 69372-19-6, Pemirolast 70458-96-7, Norfloxacin  
 79516-68-0, Levocabastine 82419-36-1, Ofloxacin 87233-61-2, Emedastine  
 94055-76-2, Suplatast (tosylate) 112504-30-0, Azulene sulfonic acid  
 113806-05-6, Olopatadine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (mucosal compns. containing active agents and cooling agents containing  
 caffeine derivs.)

IT 25718-94-9D, Polyglycine, alkylaminoethyl derivs

25734-27-4D, Polyglycine, alkylaminoethyl derivs

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(mucosal compns. containing active agents and cooling agents containing  
 caffeine derivs.)

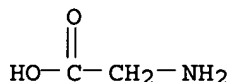
RN 25718-94-9 HCAPLUS

CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

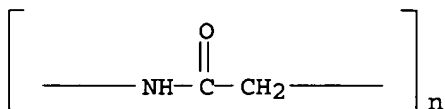
CRN 56-40-6

CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS

CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:788822 HCAPLUS

DN 135:348876

ED Entered STN: 31 Oct 2001

TI Method and agents for sensory improvement due to cooling agents

IN Matsushima, Hiroaki; Okumura, Shigetoshi

PA Rohto Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K031-708  
 ICS A61K009-06; A61K009-08; A61K031-198; A61K031-70; A61K045-08;  
 A61K047-08; A61K047-10; A61P003-02; A61P027-02; A61P027-10;  
 A61P027-14; A61P029-00; A61P037-08; A61P043-00; C07D473-08;  
 C07D473-10; C07D473-12; C07H003-00; G02C013-00

CC 63-6 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001302518	A2	20011031	JP 2001-39117	20010215
PRAI	JP 2000-36556	A	20000215		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001302518	ICM	A61K031-708
	ICS	A61K009-06; A61K009-08; A61K031-198; A61K031-70; A61K045-08; A61K047-08; A61K047-10; A61P003-02; A61P027-02; A61P027-10; A61P027-14; A61P029-00; A61P037-08; A61P043-00; C07D473-08; C07D473-10; C07D473-12; C07H003-00; G02C013-00

OS MARPAT 135:348876

AB The invention relates to a method for improving sensory, e.g. irritation, due to cooling agent, e.g. menthol, camphor, and borneol, etc., used in a composition, especially a mucosal composition, wherein the method includes addition of

caffeine, theophylline, diprophylline, theobromine, prooxyphylline, pentoxifylline, and/or related compound in the composition An eye drop containing caffeine anhydride 1, 1-menthol 0.02, NaCl 0.8, KCl 0.15, polysorbate 80, sodium dihydrogen phosphate 0.2, sodium chondroitin sulfate 0.1, borax 0.16, benzalkonium chloride 0.004 g, and water and pH adjusting agent q.s. to 100 mL was formulated.

ST caffeine deriv cooling agent mucosal sensory improvement; eyedrop caffeine menthol irritation prevention

IT **Skin preparations (pharmaceutical)**

(astringents; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Contact lenses

(composition for; method and agents for sensory improvement due to cooling agents in compns.)

IT Disinfectants

(for contact lenses; method and agents for sensory improvement due to cooling agents in compns.)

IT Eye, disease

(hyperemia, treatment of; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Coolants

(method and agents for sensory improvement due to cooling agents in compns.)

IT Essential oils

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (method and agents for sensory improvement due to cooling agents in compns.)

IT Allergy inhibitors

Anti-inflammatory agents

Antibiotics

Antihistamines

(mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Amino acids, biological studies

Carbohydrates, biological studies

Sulfonamides

Tocopherols

Vitamins

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems

(mucosal; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Eye

(muscle, controlling agent; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems

(nasal; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems

(ointments, ophthalmic; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems

(solns., ophthalmic; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 76-22-2, Camphor 83-67-0, Theobromine 479-18-5, Diprophylline 507-70-0, Borneol 603-00-9, Proxiphylline 2216-51-5 6493-05-6, Pentoxifylline

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method and agents for sensory improvement due to cooling agents in compns.)

IT 50-99-7, D-Glucose, biological studies 51-43-4, Epinephrine 51-60-5, Neostigmine methylsulfate 56-84-8, L-Aspartic acid, biological studies 58-56-0, Pyridoxine hydrochloride 58-73-1, Diphenhydramine 59-42-7, Phenylephrine 60-32-2, ε-Aminocaproic acid 65-23-6, Pyridoxine 68-19-9, Cyanocobalamin 68-26-8, Retinol 79-83-4, Pantothenic acid 81-13-0, Panthenol 84-22-0, Tetrahydrozoline 97-59-6, Allantoin 107-35-7 113-92-8, Chlorpheniramine 113-92-8, Chlorpheniramine maleate 119-36-8, Methyl salicylate 121-54-0 127-69-5, Sulfisoxazole 146-14-5, Flavin adenine dinucleotide 299-42-3, Ephedrine 515-64-0, Sulfisomidine 522-48-5, Tetrahydrozoline hydrochloride 552-79-4, Methylephedrine 723-46-6, Sulfamethoxazole 835-31-4, Naphazoline 1405-86-3, Glycyrrhizinic acid 1837-57-6, Acrinol 2086-83-1, Berberine 7440-66-6, Zinc, biological studies 7773-52-6, Cetylpyridinium 9001-63-2, Lysozyme 9002-89-5, Polyvinyl alcohol 9004-61-9, Hyaluronic acid 9007-28-7, Chondroitin sulfate 9082-07-9, Sodium chondroitin sulfate 13946-02-6, Iproheptine 14007-45-5, Potassium aspartate 15686-51-8, Clemastine 16110-51-3, Cromoglycic acid **25718-94-9D**, Polyglycine, alkylaminoethyl derivs **25734-27-4D**, Polyglycine, alkylaminoethyl derivs 34580-13-7, Ketotifen 50847-11-5, Ibudilast 53902-12-8, Tranilast 58581-89-8, Azelastine 68302-57-8, Amlexanox 68797-35-3, Dipotassium Glycyrrhizinate 69372-19-6, Pemirolast 70458-96-7, Norfloxacin 79516-68-0, Levocabastine 82419-36-1, Ofloxacin 87233-61-2, Emedastine 94055-76-2, Suplatast (tosylate) 112504-30-0, Azulene sulfonic acid 113806-05-6, Olopatadine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT **25718-94-9D**, Polyglycine, alkylaminoethyl derivs

**25734-27-4D**, Polyglycine, alkylaminoethyl derivs

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

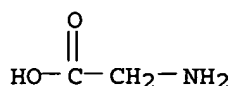
(mucosal compns. containing active agents and cooling agents and

sensory-improving agents)

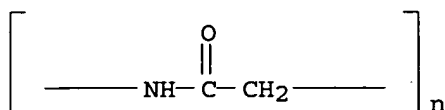
RN 25718-94-9 HCAPLUS  
 CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6  
 CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS  
 CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1992:54593 HCAPLUS

DN 116:54593

ED Entered STN: 21 Feb 1992

TI Papain immobilization onto porous poly( $\gamma$ -methyl L-glutamate) beads

AU Hayashi, Toshio; Hirayama, Chuichi; Iwatsuki, Makoto

CS Res. Cent. Biomed. Eng., Kyoto Univ., Kyoto, 606, Japan

SO Journal of Applied Polymer Science (1992), 44(1), 143-50

CODEN: JAPNAB; ISSN: 0021-8995

DT Journal

LA English

CC 7-7 (Enzymes)

AB Water-insol. papain was prepared by immobilizing papain onto the surface of porous poly( $\gamma$ -Me L-glutamate) (PMLG) beads with and without spacer. The mode of the immobilization between papain and porous PMLG beads was covalent fixation. The relative activity and the stability of the immobilized papain was investigated. The retained activity of the papain covalently immobilized by the azide method was found to be excellent toward a small ester substrate, N-benzyl L-arginine Et ester (BAEE), compared with that of the peptide binding method. The values of the Michaelis constant  $K_m$  and the maximum reaction velocity  $V_m$  for free and immobilized papain on the PMLG beads were estimated. The apparent  $K_m$  was larger for immobilized papain than for the free enzyme, while  $V_m$  was smaller for the immobilized papain. The initial enzymic activity of the covalently immobilized papain remained approx. unchanged with storage time, when the batch enzyme reaction was performed repeatedly, indicating the excellent durability.

ST papain immobilization polymethyl glutamate; methyl glutamate polymer  
 papain immobilization

IT Kinetics, enzymic

(of inactivation, of papain and immobilized derivs. by temperature)

IT Conformation and Conformers

Michaelis constant

(of papain, immobilization effect on)

IT Immobilization, biochemical  
 (of papain, on poly(methylglutamate) porous beads)

IT 9001-73-4, Papain  
 RL: USES (Uses)  
 (immobilization of, on porous poly(methylglutamate) beads, activity and stability response to)

IT 25036-43-5D, Poly( $\gamma$ -methyl-L-glutamate), acyl azides and oligoglycine conjugates 25086-16-2D, Poly( $\gamma$ -methyl-L-glutamate), acyl azides and oligoglycine conjugates  
 RL: USES (Uses)  
 (immobilization on porous beads of, of papain)

IT 25718-94-9DP, conjugates with poly( $\gamma$ -methyl-L-glutamate)  
 25734-27-4DP, Poly[imino(1-oxo-1,2-ethanediyl)], conjugates with poly( $\gamma$ -methyl-L-glutamate)  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and papain immobilization on porous beads of)

IT 971-21-1 , BAEE  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with papain and immobilized derivs., kinetics of)

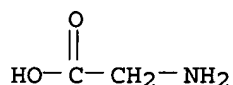
IT 25718-94-9DP, conjugates with poly( $\gamma$ -methyl-L-glutamate)  
 25734-27-4DP, Poly[imino(1-oxo-1,2-ethanediyl)], conjugates with poly( $\gamma$ -methyl-L-glutamate)  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and papain immobilization on porous beads of)

RN 25718-94-9 HCAPLUS  
 CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

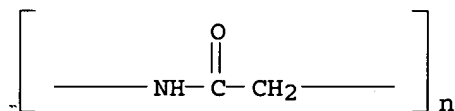
CRN 56-40-6

CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS

CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



IT 971-21-1 , BAEE

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with papain and immobilized derivs., kinetics of)

RN 971-21-1 HCAPLUS

CN L-Arginine, N2-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

=> d his

(FILE 'HOME' ENTERED AT 06:11:09 ON 12 OCT 2005)  
DEL HIS

FILE 'REGISTRY' ENTERED AT 06:12:47 ON 12 OCT 2005

L1 STR  
L2 SCR 2043  
L3 47 S L1 AND L2  
L4 7898 S L1 AND L2 FUL  
SAV L4 GEORGE086B/A  
L5 149 S (60-18-4 OR 556-02-5 OR 556-03-6)/CRN AND L4  
L6 6 S L5 AND 1/NC  
L7 1 S L5 AND NA/ELS AND 2/NC  
L8 1 S L5 AND 67-56-1/CRN  
L9 2 S L5 AND C3H7NO2 NOT ALANINE  
L10 4 S L5 AND C2H5NO2  
L11 7749 S L4 NOT L5  
L12 13 S L11 AND C10H13NO3  
L13 4 S L12 AND CL/ELS  
L14 3 S L13 AND 1/NR  
L15 7736 S L11 NOT L12  
L16 STR  
L17 23 S L16 CSS SAM SUB=L4  
L18 442 S L16 CSS FUL SUB=L4  
SAV L18 GEORGE086C/A  
L19 371 S L18 AND C2H5NO2  
L20 204 S L19 AND NR>=1  
L21 4 S L5 AND L20  
L22 167 S L19 NOT L20  
L23 12 S L22 AND 1/NC  
L24 2 S L23 NOT (D/ELS OR 15N OR LABELED OR 13C#)  
L25 11 S L22 AND (CL OR BR)/ELS AND 2/NC  
L26 2 S L25 AND (BRH OR CLH) NOT D/ELS  
L27 7 S L22 AND C3H7NO2 AND C2H5NO2 AND 2/NC  
L28 1 S L27 NOT ALANINE  
L29 SCR 2068  
L30 50 S L29 SAM SUB=L4  
L31 3208 S L29 FUL SUB=L4  
SAV L31 GEORGE086D/A  
L32 1632 S L31 NOT (C2H4O OR C3H6O)  
L33 305 S L32 AND 1/NR AND 46.150.18/RID  
L34 5 S L33 AND C9H9NO2  
L35 4 S L34 NOT ACETYL  
L36 300 S L33 NOT L34  
L37 77 S L36 AND 4 HYDROXY  
L38 1 S L37 AND C11H12N2O3  
L39 223 S L36 NOT L37  
L40 1327 S L32 NOT L33-L39  
L41 665 S L40 AND NR>=1  
L42 662 S L40 NOT L41  
L43 189 S L42 AND 1/N  
L44 156 S L43 NOT (S OR P OR SI)/ELS  
L45 55 S L44 AND (C6H11NO OR C5H9NO OR C3H5NO OR C4H7NO OR C2H3NO)  
L46 48 S L45 AND 1/NC  
L47 13 S L46 AND (" (C6H11NO)N" OR " (C5H9NO)N" OR " (C4H7NO)N" OR " (C3H5  
L48 6 S L47 NOT (LABELED OR D/ELS OR 15N OR 13C)  
L49 473 S L42 NOT L43  
L50 9 S L49 AND (C5H8N2O2 OR C7H11N3O3)  
SEL RN 3 9

jan delaval - 12 october 2005

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L51      2 S E1,E2
L52      31 S L6-L9,L14,L24,L26,L28,L35,L38,L48,L51
          SAV L52 GEORGE086E/A
          ACT GEORGE086/A
          -----
L53 (    66)SEA FILE=REGISTRY ABB=ON  PLU=ON  C8H14N4O5/MF
L54 (    59)SEA FILE=REGISTRY ABB=ON  PLU=ON  C9H16N4O5/MF
L55 (   125)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L53 OR L54)
L56 (    61)SEA FILE=REGISTRY ABB=ON  PLU=ON  L55 AND NR>=1
L57 (    64)SEA FILE=REGISTRY ABB=ON  PLU=ON  L55 NOT L56
L58 (     3)SEA FILE=REGISTRY ABB=ON  PLU=ON  L57 AND METHYL ESTER
L59 (     8)SEA FILE=REGISTRY ABB=ON  PLU=ON  L57 AND GLYCYLGLYCYLGLYCYL
L60 (     8)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L58 OR L59) NOT D/ELS
L61 (     6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L60 NOT ALANINE
L62 (     2)SEA FILE=REGISTRY ABB=ON  PLU=ON  L61 NOT (145105-82-4/BI OR 18
L63 (     9)SEA FILE=REGISTRY ABB=ON  PLU=ON  C36H38N4O9/MF AND 46.150.18/R
L64 (     1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L63 AND TYROSYL
L65 (     2)SEA FILE=REGISTRY ABB=ON  PLU=ON  C37H40N4O9/MF AND 46.150.18/R
L66 (     1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L65 AND TYROSYL
L67 (     4)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L62 OR L64 OR L66)
L68 (    17)SEA FILE=REGISTRY ABB=ON  PLU=ON  (13075-43-9/CRN OR 637-84-3/C
L69 (     6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L68 NOT (CONJUGATE OR MXS/CI
L70 (     5)SEA FILE=REGISTRY ABB=ON  PLU=ON  L69 NOT ALANINE
L71 (     9)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L67 OR L70)
          -----
          ACT GEORGE086A/A
          -----
L72 (   335)SEA FILE=REGISTRY ABB=ON  PLU=ON  (556-02-5/CRN OR 556-03-6/CRN
L73 (   146)SEA FILE=REGISTRY ABB=ON  PLU=ON  L72 AND PMS/CI
L74 (     1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L73 AND CH4O
L75 (    43)SEA FILE=REGISTRY ABB=ON  PLU=ON  C3H7NO2 AND L73
L76 (     2)SEA FILE=REGISTRY ABB=ON  PLU=ON  L75 NOT ALANINE
L77 (     6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L73 AND C9H11NO3 AND 1/NC
L78 (     3)SEA FILE=REGISTRY ABB=ON  PLU=ON  (25667-16-7/BI OR 31724-37-5/
L79 (    12)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L74 OR L76 OR L77 OR L78)
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L80      19 S L52 NOT L71,L79

FILE 'HCAPLUS' ENTERED AT 07:46:43 ON 12 OCT 2005
L81      817 S L80
L82      1 S L81 AND (LOREAL? OR OREAL? OR L()OREAL?)/PA,CS
L83      1 S L81 AND (PHILIPPE M? OR PHILIPPE M? OR PHILLIPPE M? OR PHILLIP
L84      1 S L82,L83
L85      5 S L81 AND COSMETIC?/SC,SX,CW,CT,BI
L86      9 S L81 AND COSMETICS+OLD,NT,PFT,RT/CT
L87      1 S L81 AND ?WRINKL?
L88      10 S L82-L87
L89      3 S L80 (L) COS/RL
L90      10 S L88,L89

FILE 'REGISTRY' ENTERED AT 07:49:09 ON 12 OCT 2005

FILE 'HCAPLUS' ENTERED AT 07:49:36 ON 12 OCT 2005

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